Biosafety Risk Assessment: Biological Agent Evaluation Worksheet FDOH.BPHL.Biosafety_Risk_Assessment_ Biological_Agent_Evaluation_Worksheet Version: 004



BPHL Effective Date: 3/28/2016 Author: Cooper/Kopp

Vision: To be the Healthiest State in the Nation

Biosafety Risk Assessment: Biological Agent Evaluation Worksheet

This worksheet is intended to be used in conjunction with the "Conducting a Biosafety Risk Assessment" Standard Operating Procedure. This is meant to be used in the "Consideration of Biological and Chemical Hazards" step and will allow for evaluation of procedure-independent considerations for a biological agent or toxin.

Biological Agent/Toxin Being Evaluated:						
Date of Evaluation Completion:						
Names of Individuals Involved in Conducting the Evaluation						
Name:		Role:				
Information Sources Used	for Evaluation:					
Definitions						
CDC/APHIS Select Agent	As listed at http://www.selectagents.gov/SelectAgentsandToxinsList.html					
PAPR	Powered Air Purifying Respirator					
PPE	Personal Protective Equipment					
Vaccination Is a vaccine available? Yes: □ No: □ Unknown: □						
\vdash If yes, is it recommended prior to work with this age		a agant/tayin?	Yes:	No:	Unknown:	
Comments:					OTIKITOWIT. \Box	
Comments.						
Classification						
			□ 4: □	Unknown: □		
<u> </u>		Yes: □ I	s: 🗆 No: 🗆		Unknown: □	
Comments:						
Disinfection						
Recommended disinfectants:						
Comments:						
Recommended PPE						
Which of the following is recommended for work with this agent/toxin:						
Gloves:						

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	–				
• Latex:	Yes: □	No: □	Unknown:		
• Nitrile:	Yes: □	No: □	Unknown:		
Other (specify):					
Eye protection:					
Safety glasses:	Yes: □	No: □	Unknown:		
Goggles or face shield:	Yes: □	No: □	Unknown:		
Goggles and face shield:	Yes: □	No: □	Unknown:		
Protective clothing:					
Laboratory coat:	Yes: □	No: □	Unknown:		
Sleeve covers:	Yes: □	No: □	Unknown:		
Back-fastening gown:	Yes: □	No: □	Unknown:		
Coveralls:	Yes: □	No: □	Unknown:		
Liquid-impervious apron/gown:	Yes: □	No: □	Unknown:		
Other (specify):					
Respiratory protection:					
N95 Respirator/PAPR:	Yes: □	No: □	Unknown:		
Half mask respirator:	Yes: □	No: □	Unknown:		
Mouth/nose splash protection:					
Surgical mask:	Yes: □	No: □	Unknown: [
Foot/shoe protection:					
Shoe covers:	Yes: □	No: □	Unknown:		
Comments:					
Inhalation Risk					
Is this agent/toxin known to cause infection via inhalation (to cause infection via droplets or droplet					
nuclei that have entered the upper or lower respiratory tract):					
• In a laboratory setting?			Yes: □	No: □	Unknown:
In the natural environment?			Yes: □	No: □	Unknown: □
Is the infectious dose (ID ₅₀) of this agent/toxin for the inhalation route known?					
Is the inhalation infectious dose known?			Yes: □	No: □	Unknown:
\hookrightarrow If yes, what is the infectious dose (ID ₅₀)?				1	
☐ If yes, is the infectious dose less than 1000?			Yes: □	No: □	Unknown: □
Comments:					
Percutaneous Exposure Risk					
Is this agent/toxin known to cause infection via percutaneous exposure (to cause infection through compromised skin or direct injection into the blood stream):					
T.			Yes:	No: □	Unknown: □
In the natural environment?			Yes:	No: □	Unknown:
Is the infectious dose (ID ₅₀) of this agent/toxin for the percutaneous exposure route known?					
				No: □	Unknown:
☐ If yes, what is the infectious dose (ID ₅₀)?			. 100. 🗆	110.	CHARLOWII.
\hookrightarrow If yes, is the infectious dose (1050)?			Yes: □	No: □	Unknown: □
Comments:					

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Mucosal Membrane Risk					
Is this agent/toxin known to cause infection via direct cont	act with m	1	embranes:		
In a laboratory setting?	Yes: □	No: □	Unknown: □		
In the natural environment?	Yes: □	No: □	Unknown: □		
Is the infectious dose (ID ₅₀) of this agent/toxin for the muc					
Is the mucosal membrane infectious dose known?	Yes: □	No: □	Unknown: □		
→ If yes, what is the infectious dose (ID ₅₀)?		T	1		
→ If yes, is the infectious dose less than 1000?	Yes: □	No: □	Unknown:		
Comments:					
Ingestion Risk					
Is this agent/toxin known to cause infection via ingestion (gastrointestinal tract):	to cause in	nfection vi	a contact with the		
In a laboratory setting?	Yes: □	No: □	Unknown: □		
In the natural environment?	Yes: □	No: □	Unknown: □		
Is the infectious dose (ID ₅₀) of this agent/toxin for the inge		known?			
Is the ingestion infectious dose known?	Yes: □	No: □	Unknown: □		
☐ If yes, what is the infectious dose (ID ₅₀)?					
☐ If yes, is the infectious dose less than 1000?	Yes: □	No: □	Unknown:		
Comments:					
Post-Exposure Treatments					
Do post-exposure treatments (including immuno-	Yes: □	No: □	Unknown: □		
globulin, vaccines, and antimicrobials) exist?	ļ				
⊔ If yes, what are they?					
Comments:					
Stability					
Is this agent/toxin stable outside of a host?	Yes: □	No: □	Unknown: □		
⊔ If yes, specify this stability:					
Comments:					
Location					
Is this agent/toxin endemic:					
• In this state?	Yes: □	No: □	Unknown: □		
• In this country?	Yes: □	No: □	Unknown: □		
If only found outside of this country, in what geographic					
regions is this agent/toxin endemic?					
Comments:					
Non-Human Specimen Sources					
Are specimens from non-human sources tested in this	Yes: □	No: □	Unknown: □		
institution?					

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	Yes: □	No: □	Unknown: □
agent/toxin be present in non-human sources tested in			
this institution?			
☐ If yes, in what non-human sources tested in this			
institution could this agent/toxin be present?			
Comments:			

Sources

- 1. Biological Risk Assessment in the Laboratory: Report of the Second Biorisk Management Workshop (Stefan Wagener et al., Applied Biosafety: Vol. 13, No. 3, 2008)
 - 1.1. https://my.absa.org/tiki-download_file.php?fileId=3559
- 2. CDC (Centers for Disease Control and Prevention) Biological Risk Assessment Worksheet 2.1. http://www.cdc.gov/biosafety/publications/BiologicalRiskAssessmentWorksheet.pdf
- 3. Risk Assessment for Working with Infectious Agents in the Biological Laboratory (Richard Knudsen, Applied Biosafety: Vol. 6, No. 1, 2001)
 - 3.1. https://my.absa.org/tiki-download_file.php?fileId=3175
- 4. Sandia Report SAND2010-6487 Biosafety Risk Assessment Methodology (Susan Caskey et al., printed October 2010)
 - 4.1. http://biosecurity.sandia.gov/BioRAM/Biosafety%20Risk%20Assessment%20Report.pdf

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